

PATENT ABSTRACTS OF JAPAN

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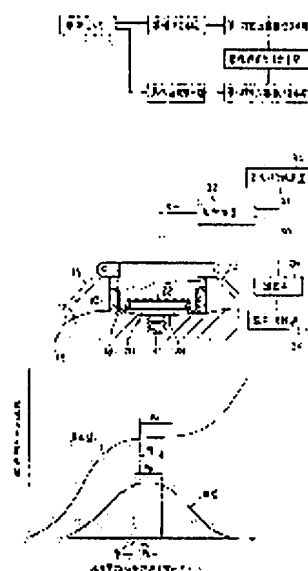
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(54) PULSE WAVE DETECTOR

(57)Abstract:

PURPOSE: To relatively stably detect the pulse waves having adequate amplitudes even if the pressing force of a pulse wave sensor fluctuates by including an optimum pressing force determining means which determines the optimum pressing force from an overlap region where a 1st pressing force range and a 2nd pressing force range overlap on each other.

CONSTITUTION: The amplitudes of the pulse waves which are successively detected by a pressure-sensitive element 29 are respectively determined in the changing process of the pressing force of the pulse wave sensor 20 by an amplitude determining means. The 1st pressing force range P_p where the change in the amplitudes of the respective pulse waves arising from a change in the pressing force of the pulse wave sensor is below a predetermined specified value or below is determined by the 1st pressing force range determining means. On the other hand, the min. values of the pulse waves successively detected by the pressure-sensitive element are respectively determined in the changing process of the pressing force of the pulse wave sensor by a min. value determining means and the 2nd pressing force range P_d where the change in the min. value of the respective pulse waves arising from a change in the pressing force of the pulse wave sensor is below a predetermined specified value or below is determined by the 2nd pressing force range determining means. The optimum pressing force is determined from the inside of the overlap range P_c where the 1st pressing force range and the 2nd pressing force range overlap on each other by the optimum pressing force determining means.



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